



## **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/648,557  
Source: 1600  
Date Processed by STIC: 5/27/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/648,557

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11      Use of <220>  
Sequence(s) 16,20 missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1600

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003  
 TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt  
 Output Set: N:\CRF4\05272003\I648557.raw

4 <110> APPLICANT: Devaux, Christian  
 5 Hebmman, Veronique  
 6 Divita, Gilles  
 7 Heitz, Frederic  
 8 Morris, Catherine May  
 9 Mery, Jean  
 10 Goody, Roger S.  
 12 <120> TITLE OF INVENTION: Inhibitors of HIV Replication and Method of Treatment  
 13 of HIV Infections  
 15 <130> FILE REFERENCE: 017753-152  
 17 <140> CURRENT APPLICATION NUMBER: US 09/648,557  
 18 <141> CURRENT FILING DATE: 2000-08-25  
 20 <160> NUMBER OF SEQ ID NOS: 21  
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 10  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: HIV  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Residues 395-404 of HIV-1 BH10RT  
 32 <400> SEQUENCE: 1  
 33 Lys Glu Thr Trp Glu Thr Trp Trp Thr Glu  
 34 1 5 10  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 27  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: Peptide MPG  
 45 <400> SEQUENCE: 2  
 46 Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly  
 47 1 5 10 15  
 48 Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val  
 49 20 25  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 6  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Amphipatic sequence of peptide MPG  
 60 <400> SEQUENCE: 3  
 61 Gly Phe Leu Gly Ala Ala  
 62 1 5

PP. 3-4  
 Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

DATE: 05/27/2003

PATENT APPLICATION: US/09/648,557

TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt

Output Set: N:\CRF4\05272003\I648557.raw

```

65 <210> SEQ ID NO: 4
66 <211> LENGTH: 25
67 <212> TYPE: PRT
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Retroinhibase 1, peptide p7++
73 <400> SEQUENCE: 4
74 Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Trp Ser Gln Lys
75 1 5 10 15
76 Glu Thr Trp Glu Thr Trp Trp Thr Glu
77 20 25
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 15
82 <212> TYPE: PRT
83 <213> ORGANISM: HIV
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Peptide p237
88 <400> SEQUENCE: 5
89 Arg Gly Thr Lys Ala Leu Thr Glu Val Ile Pro Leu Thr Glu Asp
90 1 5 10 15
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 21
95 <212> TYPE: PRT
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Peptide p7+
101 <400> SEQUENCE: 6
102 Gly Ala Leu Phe Leu Gly Phe Leu Gly Ala Ala Lys Glu Thr Trp Glu
103 1 5 10 15
104 Thr Trp Trp Thr Glu
105 20
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 10
110 <212> TYPE: PRT
111 <213> ORGANISM: HIV-1
113 <400> SEQUENCE: 7
114 Lys Glu Thr Trp Glu Ala Trp Trp Thr Glu
115 1 5 10
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 10
120 <212> TYPE: PRT
121 <213> ORGANISM: HIV-1
123 <400> SEQUENCE: 8
124 Lys Glu Thr Trp Glu Ala Trp Trp Met Glu
125 1 5 10
128 <210> SEQ ID NO: 9
129 <211> LENGTH: 10
130 <212> TYPE: PRT
131 <213> ORGANISM: HIV-1

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003

TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt

Output Set: N:\CRF4\05272003\I648557.raw

```

133 <400> SEQUENCE: 9
134 Lys Glu Thr Trp Glu Thr Trp Trp Ile Glu
135 1 5 10
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 10
140 <212> TYPE: PRT
141 <213> ORGANISM: HIV-1
143 <400> SEQUENCE: 10
144 Lys Glu Thr Trp Glu Thr Trp Trp Ala Glu
145 1 5 10
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 10
150 <212> TYPE: PRT
151 <213> ORGANISM: HIV-2
153 <400> SEQUENCE: 11
154 Arg Glu Ile Trp Glu Gln Trp Trp Asp Asn
155 1 5 10
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 10
160 <212> TYPE: PRT
161 <213> ORGANISM: HIV-2
163 <400> SEQUENCE: 12
164 Arg Glu Thr Trp Asp Gln Trp Trp Thr Asp
165 1 5 10
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 10
170 <212> TYPE: PRT
171 <213> ORGANISM: HIV-1
173 <220> FEATURE:
174 <221> NAME/KEY: VARIANT
175 <222> LOCATION: 6
176 <223> OTHER INFORMATION: Xaa = Thr or Ala
178 <221> NAME/KEY: VARIANT
179 <222> LOCATION: 10
180 <223> OTHER INFORMATION: Xaa = Glu or Asp
W--> 182 <400> 13
W--> 183 Lys Glu Thr Trp Glu Xaa Trp Trp Thr Xaa
184 1 5 10
187 <210> SEQ ID NO: 14
188 <211> LENGTH: 10
189 <212> TYPE: PRT
190 <213> ORGANISM: HIV-1
192 <220> FEATURE:
193 <221> NAME/KEY: VARIANT
194 <222> LOCATION: 14 6
195 <223> OTHER INFORMATION: Xaa = Thr or Ala
197 <400> SEQUENCE: 14
W--> 198 Lys Glu Thr Trp Glu Xaa Trp Trp Met Glu
199 1 5 10

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003  
TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt  
Output Set: N:\CRF4\05272003\I648557.raw

202 <210> SEQ ID NO: 15  
203 <211> LENGTH: 10  
204 <212> TYPE: PRT  
205 <213> ORGANISM: HIV-1  
207 <400> SEQUENCE: 15  
208 Lys Glu Thr Trp Glu Ala Trp Trp Thr Asp  
209 1 5 10  
212 <210> SEQ ID NO: 16  
213 <211> LENGTH: 10  
214 <212> TYPE: PRT  
215 <213> ORGANISM: Artificial Sequence  
217 <220> FEATURE:  
218 <221> NAME/KEY: VARIANT  
219 <222> LOCATION: 6  
220 <223> OTHER INFORMATION: Xaa = Thr or Ala  
222 <221> NAME/KEY: VARIANT  
223 <222> LOCATION: 9  
224 <223> OTHER INFORMATION: Xaa = Thr, Ala, Val or Ile

W--> 226 <221> VARIANT

227 <222> LOCATION: 10

228 <223> OTHER INFORMATION: Xaa = Glu or Asp

W--> 230 <400> 16

W--> 231 Lys Glu Thr Trp Glu Xaa Trp Trp Xaa Xaa

232 1 5 10

235 <210> SEQ ID NO: 17

236 <211> LENGTH: 10

237 <212> TYPE: PRT

238 <213> ORGANISM: HIV-1

240 <400> SEQUENCE: 17

241 Lys Glu Thr Trp Asp Thr Trp Trp Thr Glu

242 1 5 10

245 <210> SEQ ID NO: 18

246 <211> LENGTH: 10

247 <212> TYPE: PRT

248 <213> ORGANISM: HIV-1

250 <400> SEQUENCE: 18

251 Lys Glu Thr Trp Glu Val Trp Trp Thr Glu

252 1 5 10

255 <210> SEQ ID NO: 19

256 <211> LENGTH: 10

257 <212> TYPE: PRT

258 <213> ORGANISM: HIV-1

260 <400> SEQUENCE: 19

261 Arg Glu Thr Trp Glu Thr Trp Trp Ala Asp

262 1 5 10

265 <210> SEQ ID NO: 20

266 <211> LENGTH: 10

267 <212> TYPE: PRT

268 <213> ORGANISM: Artificial Sequence

*see item 11 on Enol  
Summary  
Sheet*

*item 11*

## RAW SEQUENCE LISTING

DATE: 05/27/2003

PATENT APPLICATION: US/09/648,557

TIME: 09:00:25

Input Set : A:\017753-152.ST25.txt

Output Set: N:\CRF4\05272003\I648557.raw

270 <220> FEATURE:  
271 <221> NAME/KEY: VARIANT  
272 <222> LOCATION: 2  
273 <223> OTHER INFORMATION: Xaa = Glu or Asp  
275 <221> NAME/KEY: VARIANT  
276 <222> LOCATION: 3  
277 <223> OTHER INFORMATION: Xaa = Thr, Val or Ile

W--&gt; 279 &lt;221&gt; VARIANT

280 <222> LOCATION: 10  
281 <223> OTHER INFORMATION: Xaa = Asn or Asp

W--&gt; 283 &lt;400&gt; 20

W--&gt; 284 Arg Xaa Xaa Trp Glu Gln Trp Trp Asp Xaa

285 1 5 10

288 &lt;210&gt; SEQ ID NO: 21

289 &lt;211&gt; LENGTH: 10

290 &lt;212&gt; TYPE: PRT

291 &lt;213&gt; ORGANISM: Artificial Sequence

293 &lt;220&gt; FEATURE:

294 &lt;223&gt; OTHER INFORMATION: HIV-1

296 &lt;400&gt; SEQUENCE: 21

297 Arg Glu Thr Trp Asp Gln Trp Trp Thr Asp

298 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/648,557

DATE: 05/27/2003  
TIME: 09:00:26

Input Set : A:\017753-152.ST25.txt  
Output Set: N:\CRF4\05272003\I648557.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. ~~6,10~~

Seq#:14; Xaa Pos. ~~6~~

Seq#:16; Xaa Pos. ~~6,9,10~~

Seq#:20; Xaa Pos. ~~2,3,10~~



## VERIFICATION SUMMARY

DATE: 05/27/2003

PATENT APPLICATION: US/09/648,557

TIME: 09:00:26

Input Set : A:\017753-152.ST25.txt

Output Set: N:\CRF4\05272003\I648557.raw

L:182 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:226 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:230 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:279 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20  
L:283 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20  
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0